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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/993,956	11/27/2001	Thauming Kuo	039592-5075-01US	9006
9629 7	7590 10/31/2003		EXAMI	NER
MORGAN LEWIS & BOCKIUS LLP			ACQUAH, SAMUEL A	
1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
•	•		1711	
			DATE MAILED: 10/31/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		CLORS				
	Application No.	Applicant(s)				
	09/993,956	KUO ET AL.				
Office Action Summary	Examin r	Art Unit				
	SAMUEL A. ACQUAH	1711				
Th MAILING DATE of this communication appears on the cover shet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply by within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS to cause the application to become ABANDO	ne timely filed days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>03 J</u>	l <u>uly 2002</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-5 and 12-18 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>11-18</u> is/are allowed.						
6) Claim(s) <u>1-5</u> is/are rejected.						
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)	- F. 1011.7 and 01 0.0.0. 33	dilarer int.				
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	mary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				
C. Detays and Trademark Office						

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DETAILED ACTION

- 1. The indicated allowability of claims 1-5 is hereby withdrawn in view of the following new prior arts.
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Clark et al 6,262,149 or under 35 USC 102(b) as being anticipated by Blount Jr. 5,378,757.

The claims are directed to a resin intermediate comprising the reaction product of a glycol and a difunctional sulfomonomer, wherein the resin is substantially free of unreacted sulfomonomer particles. Although the specification does not clearly define "substantially free", the specification states that the "resin intermediate of this invention typically have an acid number of less than 10 mg KOH/g, preferably less than about 5 mg KOH/g, more preferably, less than about 2 mg KOH/g" (p.8, lines 23-25). Example 1 gives the acid number 1.5 mg KOH/g. It is noted that the claims are silent about the "powder" phase of the product or the acid number. However, Example 1 (step 1) of Clark uses the same NPG and 5-SSIPA to prepare the resin intermediate by using the same molar ratio as did the Applicant (Clark 23.88 mol / 5.6 mol = 4.26, Applicant's

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Example 1 uses 113.5 / 26.6 = 4.26, with the same catalyst and follow the same procedure. The acid number is less than 3 mg KOH/gm).

Example 2, step 2 of Blount Jr. discloses the preparation of a resin intermediate from NPG (0.478 mol) and 5-SSIPA (0.084 mol) in a molar ratio equal to 5.7, and an acid catalyst. The resin product is essentially free of acids, and has an acid value less than 1 mg KOH/gm.

It is the Examiner's position that there is essentially no difference between the claimed intermediate product and those of the cited prior arts. Both use a glycol of 75-85 mol % and difunctional sulfomonomer of 15-25 mol %.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAMUEL A. ACQUAH whose telephone number is 703-308-2436. The examiner can normally be reached on M-TH, FRIDAYS OFF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JAMES SEIDLECK can be reached on 703-308-2462. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-0661.

S.A.A. 10/27/03 SAMUEL Á. ACQUAH PRIMARY EXAMINER GROUP 1295 /7 > 6